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METEOROLOGY AND CLIMATOLOGY

KÖPPEN, W. Die Bestimmung der Luftströmungen in der Höhe mittels Pilotballon. *Meteorol. Zeitschr.*, Vol. 32, 1915, No. 6, pp. 273-277.

EDUCATIONAL

DE MAGISTRIS, L. F. Ancora sulle finalità degli esercizi cartografici. *La Geogr.*, Vol. 2, 1914, No. 2, pp. 56-58. Novara.

DE MAGISTRIS, L. F. Di tre recenti lutti della didattica geografica: G. Gambino—L. Marson—P. Sensini. *La Geogr.*, Vol. 2, 1914, No. 8, pp. 303-314. Novara.

—— The Place of Map Tests in Examinations. *Geogr. Teacher*, No. 42, Vol. 8, 1915, Part 2, pp. 102-112. London.

GENERAL.

BRIDGMAN, H. L. Peary: The Man and His Work. Reprint, *Atti. X Congresso Intern. di Geogr.*, March 27-April 3, 1913. Rome.

DE MAGISTRIS, L. F. Giuseppe dalla Vedova (con un ritratto). *Biografie di Geografi e di Esploratori Contemporanei, I.* Ist. Geogr. de Agostini, Novara, 1914.

DE MAGISTRIS, L. F. Luigi Hugues: Necrologia. 7 pp. Ist Geogr. de Agostini, Novara, 1913.

FRESHFIELD, D. W. Address at the Anniversary General Meeting, May 17, 1915 [Roy. Geogr. Soc.]. *Geogr. Journ.*, Vol. 46, 1915, No. 1, pp. 1-10.

NEW MAPS

EDITED BY THE ASSISTANT EDITOR

For system of listing maps see p. 75 of this volume

MAPS ISSUED BY UNITED STATES GOVERNMENT BUREAUS

U. S. GEOLOGICAL SURVEY

Topographic Sheets

(Including Combined and Special Topographic Maps)

California. (a) Concord Quadrangle. Surveyed in 1893-94; culture revised in part in 1913-14. 1:62,500. 38°0' - 37°45' N.; 122°15' - 122°0' W. Contour interval 25 ft. Edition of June 1915.

(b) Haywards Quad. Surveyed in 1896; culture revised in part in 1913-1914. 1:62,500. 37°45' - 37°30' N.; 122°15' - 122°0' W. Interval 25 ft. Edit. of June 1915.

(c) Merritt Quad. Surveyed in 1905. 1:31,680. 38°37'30" - 38°30'0" N.; 121°52'30" - 121°45'0" W. Interval 5 ft. Edit. of June 1915.

(d) San Francisco Quad. Surveyed in 1892-94; culture revised in 1914. 1:62,500. 38°0' - 37°45' N.; 122°31' - 122°15' W. Interval 25 ft. Edit. of June 1915.

(e) San Mateo Quad. Surveyed in 1892; culture revised in part in 1914. 1:62,500. 37°45' - 37°30' N.; 122°31' - 122°15' W. Interval 25 ft. Edit. of June 1915.

(f) Swingle Quad. Surveyed in 1905. 1:31,680. 38°37'30" - 38°30'0" N.; 121°45'0" - 121°37'30" W. Interval 5 ft. Edit. of June 1915.

[Maps (a), (b), (d) and (e) are the four sheets mainly constituting the San Francisco area as represented on the special map listed under "California (c)" in the *Bull.* for August (1915, pp. 634-635). As regards physical features, they are reprints of the first editions of 1897-99; but as to culture,

which has materially changed since, they have been thoroughly revised. Maps (a) and (f) belong to the two-inches-to-the-mile series of the Great Valley of California.]

Illinois. Mount Olive Quad. Surveyed in 1913. 1:62,500. 39°15' - 39°0' N.; 89°45' - 89°30' W. Interval 20 ft. Edit. of June 1915.

Nevada. Yerington District. Surveyed in 1913-1914. 1:24,000. 39°2'0" - 38°54'30" N.; 119°17'0" - 119°9'30" W. Interval 25 feet. Edit. of June 1915.

[Special map representing in much greater detail an area included in the old Wabuska, Nev., and Wellington, Nev.-Cal., sheets in 1:25,000 published in 1893-94.]

Ohio. (a) Brinkhaven Quad. Surveyed in 1912-1913. 1:62,500. 40°30' - 40°15' N.; 82°15' - 82°0' W. Interval 20 ft. Edit. of June 1915.

(b) Coshocton Quad. Surveyed in 1912-1913. 1:62,500. 40°30' - 40°15' N.; 82°0' - 81°45' W. Interval 20 ft. Edit. of June 1915.

(c) Millersburg Quad. Surveyed in 1912-1913. 1:62,500. 40°45' - 40°30' N.; 82°0' - 81°45' W. Interval 20 ft. Edit. of June 1915.

(d) Waynesville Quad. Surveyed in 1913. 1:62,500. 39°45' - 39°30' N.; 84°15' - 84°0' W. Interval 20 ft. Edit. of July 1915.

[On the southern part of map (b) the contour multiples of 100 ft. are emphasized somewhat less than usual (less than on the adjoining sheet, map (a), for instance) thus failing to relieve the natural monotony of the dissected upland surface represented. On map (d) the southern edge of Dayton is included.]

South Dakota. (a) Spearfish Quad. Surveyed in 1898; partial revision in 1913. 1:62,500. 44°30' - 44°15' N.; 104°0' - 103°45' W. Interval 50 ft. Edit. of June 1915.

(b) Sturgis Quad. Surveyed in 1897; partial revision in 1913. 1:62,500. 44°30' - 44°15' N.; 103°45' - 103°30' W. Interval 50 ft. Edit. of June 1915.

[These sheets are revised from the original editions published in 1900 and 1899, respectively. The revision refers both to culture and relief; the largest changes in the latter are on the Spearfish sheet and near the towns of Lead and Deadwood. The reduction of the two sheets formed the northern half of the Deadwood sheet, 1:125,000, published in 1901. The present changes will necessitate a slight modification of the larger sheet.]

West Virginia. Pickens Quad. Surveyed in 1913. 1:62,500. 38°45' - 38°30' N.; 80°15' - 80°0' W. Interval 50 ft. Edit. of June 1915.

[Coextensive with the southeastern quarter of the old Buckhannon sheet, 1:125,000, last published in 1896. In the nomenclature of streams the present sheet tends to the principle of deciding which headwater branch of a stream constitutes its main source and then extending the name of the main stream up to the head of this branch. This is done in the present case with the Tygart and Middle Fork Rivers. The lower course of the latter, represented on the recent adjoining Sago sheet (see *Bull.*, Vol. 47, 1915, p. 156), is there termed Left Fork. The upper course of the former is termed Valley River on the Buckhannon sheet. The present map is similarly at variance with the nomenclature of the base map of West Virginia, 1:500,000, recently published by the Survey, which favors separate names for headwater branches, therein probably reflecting local usage. Added confusion in the drainage names of the region is caused by the fact that the usual designation of right and left branches is reversed, i.e. the branch entering from the right on looking *upstream* is called "Right Fork," etc. This is the case with the Right and Left Forks of the Middle Fork and Buckhannon Rivers.]

Wyoming. Grass Creek Basin. Surveyed in 1912-13. 1:62,500. 44°0' - 43°45' N.; 108°45' - 108°30' W. Interval 20 ft. Edit. of July 1915.

Maps Accompanying Publications

Alaska. (a) Geologic Reconnaissance Map of the Ketchikan and Wrangell Mining Districts, Southeastern Alaska. By F. E. and C. W. Wright. 1914. 1:1,000,000. 56°31' - 54°29' N.; 134°40' - 129°48' W. 10 colors.

(b) Topographic Map of Copper Mountain and Vicinity, Alaska. Surveyed in 1908. 1914. 1:62,500. $55^{\circ}17'30''$ - $55^{\circ}10'30''$ N.; $132^{\circ}41'0''$ - $132^{\circ}30'30''$ W. 2 colors.

(c) Geologic Map and Sections of Copper Mountain and Vicinity, Alaska. By C. W. Wright. Same scale and coordinates as map (b). 7 colors.

(d) Topographic Map of Kasaan Peninsula, Prince of Wales Island, Alaska. Surveyed in 1907-1908. 1:62,500. $55^{\circ}40'15''$ - $55^{\circ}25'0''$ N.; $132^{\circ}35'20''$ - $132^{\circ}5'0''$ W. 2 colors.

(e) Geologic Map of Kasaan Peninsula, Prince of Wales Island, Alaska. Geology by C. W. Wright. Same scale and coordinates as map (d). 9 colors.

Accompany: maps (a), (b) and (c) as Pls. I, II and V respectively facing pp. 16, 28, and 30; maps (d) and (e) as Pls. XIII and XI in pocket, "Geology and Ore Deposits of Copper Mountain and Kasaan Peninsula, Alaska," by C. W. Wright, *U. S. G. S. Prof. Paper 87*, 1915.

[Map (a) is a general geological map of the southern tip of the Alaska "panhandle" reproduced from Pl. I, *U. S. G. S. Bull. 347*, 1908. Maps (b) and (d) were published respectively as Alaska Sheets No. 540B and 540A in 1911 (see under "Alaska," *Bull.*, Vol. 44, 1912, pp. 74 and 397). Maps (c) and (e), which show the geology superimposed on the topography of (b) and (d) respectively, are original, although preliminary black-and-white sketches of the two areas have appeared as Pls. III and II of *U. S. G. S. Bull. 379*, published in 1909.]

Louisiana. Sketch map of lower end of Delta of the Mississippi, showing approximately areas of land and water formed since the last detailed and complete survey was made. [1:350,000.] $29^{\circ}12'$ - $28^{\circ}54'$ N.; $89^{\circ}28'$ - $88^{\circ}57'$ W. Accompanies, as Fig. 2 on p. 14, "The Mud Lumps at the Mouths of the Mississippi," by E. W. Shaw, *U. S. G. S. Prof. Paper 85-B*, 1913.

[The importance of this sketch-map lies in the fact that it more closely approximates the present distribution of land and water at the Mississippi mouth than even the most recent Coast Survey charts. The reason for their inaccuracy is that the territory between the "passes" is not often visited and has not been surveyed for some 20 years. The map indicates that almost half of Garden Island Bay, between South and Southeast Passes, and the head of West Bay have been filled in, while Redfish and Blind Bays, respectively south and north of Southeast Pass, have been enlarged. The text (p. 13) states the gain in land to be at least 100 sq. miles, and the loss to be "many square miles." A measurement of the present map gives 50 and 9 sq. miles for the gain and loss respectively.]

Mississippi-Alabama-Georgia, etc. Map showing the Distribution of the Lithologic Divisions of the Eastern Gulf Cretaceous Deposits and Their Age Equivalencies. 1:2,500,000. $37\frac{4}{5}^{\circ}$ - $28\frac{4}{5}^{\circ}$ N.; $92\frac{1}{2}^{\circ}$ - $78\frac{3}{4}^{\circ}$ W. 14 colors. Accompanies, in pocket, as Pl. IX, "Cretaceous Deposits of the Eastern Gulf Region, etc.," by L. W. Stephenson, *U. S. G. S. Prof. Paper 81*, 1914.

New York. (a) Topographic Map of Long Island, New York. Engraved from U. S. Geological Survey topographic sheets. 1913. 1:125,000. $41^{\circ}13'$ - $40^{\circ}32'$ N.; $74^{\circ}7'$ - $71^{\circ}50'$ W. 3 colors.

(b) Geologic Map of Long Island, New York. By Myron L. Fuller. 1913. Same scale and coordinates as map (a). 22 colors.

Accompany, as Pls. II and I, "The Geology of Long Island, New York," by M. L. Fuller, *U. S. G. S. Prof. Paper 82*, 1914.

[Map (b) will immediately occupy its rightful position as the standard geological map of Long Island. The fact that it represents a natural area will add to its authoritativeness a certain quality of finality. Nineteen symbols are used to represent the principal physiographic elements of the island, as follows: Harbor Hill moraine; Ronkonkoma moraine; outwash (7 types); till of Wisconsin stage (2 types); various gravels, clays, and sands, etc. (5 types); beach deposits; dune sand; swamp and marsh deposits. Map (a) is a reduction from the 1:62,500 topographic sheets; the contour interval has been increased to 20 ft., roads are generalized to single lines and houses are omitted.

The topography of the northern shore of Long Island Sound is shown for 3 or 4 miles inland. On several copies which the reviewer has seen the relief plate unfortunately does not register accurately.]

United States. Map of the United States Showing Lines of Equal Anomaly of Gravity. [1:15,000,000.] [49°-25° N.; 25°-67° W.] Accompanies, as Pl. IV, facing p. 32, "Interpretation of Anomalies of Gravity," by G. K. Gilbert, *U. S. G. S. Prof. Paper 85-C*, 1913.

[The "contour" interval is stated to be 0.01 dyne. The map is a reduced copy of Illustration No. 2, in *U. S. Coast and Geod. Survey Spec. Publ. No. 12*.]

AFRICA.

Africa. [Nine maps of Africa], 1:45,000,000, 39° N.-35° S. and 20° W.-65° E., as follows: No. 1: The Political Map of Africa in July 1914. 7 colors. No. 2: Africa as It Might Have Been in 1916. 7 colors. No. 3: Africa As It May Be When the War Is Finished. 7 colors. No. 4: Africa and the White Man or Caucasian Sub-Species. 1 color. No. 5: Africa and the Black, Brown and Yellow Races. 3 colors. No. 6: The Future Great Railways of Africa. 2 colors. No. 7: The Mineral and Vegetable Values of Africa. 6 colors. No. 8: The Dominant Languages of Africa. 16 colors. No. 9: The Germ Diseases of Africa [affecting] Man and Beast. Accompany "The Political Geography of Africa Before and After the War," by H. H. Johnston, *Geogr. Journ.*, Vol. 45, 1915, No. 4, pp. 273-301.

[Maps Nos. 1, 2, and 3 are hardly worth printing: map 2 purports to show the ultimate partition of Africa if the European war had not broken out; map 3 is, to say the least, premature. On the other hand, the remaining maps are extremely valuable and suggestive. Map 4 shows the maximum extent of the regions which, on account of temperate climate and a sparsity or absence of indigenous population, can be colonized by the white race. Map 5 distinguishes between the distribution of (a) Caucasian races, (b) Caucasian races tinged with negritic racial intermixture, (c) negroids, and (d) negroes. Map 6 shows projected and existing railroads and water routes navigable at all seasons. On map 7 the distribution of the following 14 mineral and animal products or product groups is shown: diamonds; gold; iron; copper; tin; mineral oil, salt, coal; forest products (timber, coffee, rubber, etc.); cereals and groundnuts, sugar and tobacco; cotton; bananas, dates, grapes and other fruits; palm oil, shea butter, or other vegetable fats; pasture animals (cattle, goats, sheep, ostriches, camels and horses). Map 8 indicates the extension of the following languages: English, French, Italian, Spanish, Dutch, Portuguese, Libyan-Hamitic, Arabic, Hausa, Fula, Zulu, Swahili, Mandingo, Bangala, Congo, Tibu-Kanuri. Map 9 differentiates the area of distribution of the following diseases: (1) ulcers, boils, buboes, and similar complaints due to germ diseases; (2) "malarial" and "black water" fevers, with special symbol for "yellow fever"; (3) diseases, mainly trypanosomatic, particularly affecting cattle, horses and camels; (4) sleeping sickness of the Congo type; (5) sleeping sickness of the Rhodesian type.]

Kamerun. Die Ölpalmenbestände im Bezirk Bare. Dargestellt auf Grundlage der in der Karte von Kamerun 1:300,000 benutzten Materialien und neuer eigenen Aufnahmen von G. Adams. Gezeichnet von E. Meyer unter Leitung von M. Moisel. 1:75,000. 5°5' - 4°40' N.; 9°43.7' - 10°0.0' E. 4 colors. Accompanies, as Karte 1, *Mitt. aus den Deutschen Schutzgeb.*, Vol. 27, 1914, No. 1.

[Large-scale map of the oil-palm district on the southeastern slope of the Manenguba Mountains, a volcanic massif forming the southern end of the range separating Benue from Sanaga waters. Palm districts are shown in green, relief in approximate contours in brown, drainage in blue.]

Kamerun. Kameruner Schiffahrtsexpedition: Der Lauf des Njong zwischen Mbalmajo und Ndandumbu (km 0-244) in 2 Blatt. 1:50,000. 1 color. (1) [in two parts:] (a) Kilometer 0-Kilometer 57. (b) Kilometer 57-Kilo-

meter 145. (2) [in two parts:] (a) Kilometer 145-Kilometer 221. (b) Kilometer 221-Kilometer 244. Both sheets together: [4°0' - 3°30' N.; 11°32' - 12°43' E.]. Accompany, as Karten 3 and 4, "Die Ergebnisse der Schiffsahrtsexpedition 1913 in Kamerun," by — Hassenstein, *Mitt. aus den Deutschen Schutzgeb.*, Vol. 27, 1914, No. 2, pp. 197-206.

[Hydrographic survey of the middle section of one of the larger west-flowing rivers draining the highland of southern Kamerun. Depth and breadth are indicated at frequent intervals, and each map section is accompanied by a profile of the corresponding part of the river.]

ASIA

Caucasia. The Adai Khokh Group from the 1 verst to 1 inch Russian Surveys with corrections by Harold Raeburn. 1914. 1:125,000. 42°58.6' - 42°39.3' N.; 43°35' - 44°4' E. With inset, 1:13,000,000, showing location of main map. Accompanies "The Adai-Khokh Group, Central Caucasus," by H. Raeburn, *Geogr. Journ.*, Vol. 45, 1915, No. 3, pp. 181-202.

[Valuable map bringing out well the névé and glacier system of the massif. The map is reproduced in brown halftone; while very creditable for this process, it hardly does justice to the fine differentiation of the original drawing between glacier, bare rock, and more rounded slopes.]

Other Maps Received

NORTH AMERICA

CANADA

British Columbia. Map 109A, Prescott, Paxton and Lake Mines, Texada Island, British Columbia. 1:4800. Geological Survey, Department of Mines, [Ottawa], 1915.

Ontario. Key Harbour and its approaches, Georgian Bay, Canada. 1:12,160. Chart No. 99. Department of the Naval Service, Ottawa, March 1915.

St. Joseph Channel, Lake Huron, Canada. 1:34,468. Chart No. 88. Department of the Naval Service, Ottawa, May 1915.

Quebec. The approaches to Saguenay River, St. Lawrence River, Canada. 1:24,355. Chart No. 203. Department of the Naval Service, Ottawa, May 1915.

Saskatchewan. Map 117A, outline map, Wood Mountain Coal Area, Saskatchewan. 1:253,440. Geological Survey of Canada, Department of Mines, [Ottawa], 1915.

Saskatchewan, showing disposition of lands. 1:792,000. Railway Lands Branch, Department of the Interior, Ottawa, 1915.

UNITED STATES

Alaska. Kroll's standard map of the territory of Alaska. 1:2,534,400. Kroll Map Co., Seattle, 1914.

Map of the Bering River Coal Field, showing distribution of the various kinds of coal and location of the coal sections and coal samples described in Bulletin 335. By G. C. Martin, assisted by A. G. Maddren. 1:62,500. U. S. Geological Survey, Washington, 1915.

Illinois. Olcott's land value maps of Chicago and suburbs. 174 pp., incl. index. Geo. C. Olcott, Chicago, 1914.

Michigan-Ontario. Lower Detroit River, showing Livingstone Channel and positions of aids to navigation. 1:25,000. U. S. Lake Survey Office, Detroit, April 1915.

Michigan-Wisconsin. General chart of Lake Michigan. 1:500,000. U. S. Lake Survey Office, Detroit, June 1915.

Montana. [Map of Flathead Lake, Mont. Approximate scale 1:190,080. Department of the Interior, Washington, 1915.]

New York. Chart No. 5, New York State Canals, Brewerton to Cross Lake and Syracuse to Oswego. 1:40,000. U. S. Lake Survey Office, Detroit, April 1915.

Pennsylvania. Road map of southeastern Pennsylvania. 1:126,720. The Automobile Club of Philadelphia, Philadelphia, Pa., 1915. Price \$1.

The Automobile Club of Pennsylvania road map of south central Pennsylvania. 1:126,720. The Automobile Club of Philadelphia, [Philadelphia], 1915. Price \$1.

United States. United States, showing principal meridians, base lines and areas governed thereby. [1:8,000,000.] General Land Office, Washington, 1915.

Washington. Kroll's standard map of Seattle. [Approximate scale 1:35,000.] Kroll Map Co., Seattle, 1915.

Geological map of Pierce County Coal Field. 1:63,360. Accompanies as Pl. 1, *Washington Geological Survey, Bull. No. 10*. Olympia, 1914

West Virginia. Boone County. 1:62,500. [Two maps]: (a) showing topography, assembled from sheets of U. S. Geological Survey, 1914: (b) showing general and economic geology, by C. E. Krebs and D. D. Teets, Jr., 1915. West Virginia Geological Survey, [Morgantown, W. Va.].

Wyoming. Basin-Greybull Oil and Gas Field. 1:35,000. Accompanies as Pl. VII, "The Basin and Greybull Oil and Gas Fields," by F. F. Hintze, Jr., *Bull. No. 10, Geologist's Office, Cheyenne, Wyo.*, 1914.

SOUTH AMERICA

Peru. Mapa de la zona petrolífera del norte del Perú por el ingeniero Ricardo A. Deustua. 1:500,000. Accompanies, opp. p. 102, *Boletín de la Sociedad Geográfica de Lima*, Año XXII, Tomo XXVIII, Lima, 1912.

Mapa del Perú con la distribución de los yacimientos petrolíferos conocidos hasta la fecha, por el ingeniero Ricardo A. Deustua. 1:11,000,000. Accompanies opp. p. 20, *Boletín de la Sociedad Geográfica de Lima*, Año XXII, Tomo XXVIII, Lima, 1912.

AFRICA

Madagascar. Carte de Madagascar. 1:2,000,000. Service Géographique de l'Armée, [Paris], 1894.

South Africa. The railway map of South Africa. 85 mi. to 1 in. Offices of "South Africa," London, E. C., 1915.

Map of South West Africa. 1:200,000. "South Africa," London, E. C., [1915].

ASIA

Federated Malay States. Sketch map of Federated Malay States railways 1913, and their connections. 15 mi. to 1 in. General Manager's Office, Kuala Lumpur, [1913].

Japan. Topographical map, Division III, Imperial Geological Survey of Japan. 1:400,000. Imperial Geological Survey, Tokyo, 1914.

Imperial Geological Survey of Japan. 1:200,000. [Topographic sheets]: Zone 9, Col. XII, Yokohama; Zone 10, Col. XII, Tokyo; Zone 15, Col. XII, Murakami; Zone 18, Col. XIV, Morioka; Zone 21, Col. XIII, Mimmaya. [Geologic sheet]: Zone 15, Col. XII, Murakami. Imperial Geological Survey, Tokyo, 1914.

[Geological map of] Jōban coal field. 1:10,000. Imperial Geological Survey of Japan, Tokyo, 1913.

Mineral map, Division III, Imperial Geological Survey of Japan. 1:400,000. Imperial Geological Survey, Tokyo, 1914.

Geological map, Division III, Imperial Geological Survey of Japan. 1:400,000. Imperial Geological Survey of Japan, Tokyo, 1914.

Turkey in Asia. The Holy Land to illustrate the New Testament. 1:380,000. W. & A. K. Johnston, Ltd., Edinburgh, [1915].

The theatre of war in western Asia Minor, the Sea of Marmara, the Bosphorus & Dardanelles, Constantinople & Smyrna. [7 insets]: (1) [Asia Minor], 1:3,220,000; (2) Sea of Marmara, 1:900,000; (3) Smyrna, 1:23,000; (4) Skutari [no scale]; (5) Constantinople, 1:23,000; (6) Bosphorus, 1:241,000; (7) Dardanelles, 1:482,000. Edward Stanford, Ltd., London, 1915.

AUSTRALASIA AND OCEANIA

Australia. [Geological map of] Granya. 1:31,680. Geological Survey of Victoria, [Melbourne], 1915.

[Geological map of] Yabba. 1:31,680. Geological Survey of Victoria, [Melbourne], 1915.

Map of Australia showing the distribution of Australites. 1:13,939,200. Accompanies "Australites," by E. J. Dunn, F. G. S., *Bulletins of the Geological Survey of Victoria*, No. 27. Department of Mines, [Melbourne], 1912.

Geological sketch map of portion of Eyre's Peninsula. 1:243,440. Accompanies "The Supposed Oil-Bearing Areas of South Australia," by Arthur Wade, *Geological Survey of South Australia*, Bull. No. 4, Adelaide, 1915.

EUROPE

Austria-Hungary-Italy. Trentino e terre adiacenti. 1:200,000. Antonio Vallardi, Milano, [1915].

L'Adriatico e le terre irredente. 1:600,000. Antonio Vallardi, Milano, [1915].

The seat of war on the Austro-Italian frontier. 1:1,140,000. Edward Stanford, Ltd., London, 1915.

Europe. Zustand der Atmosphäre über Europa am 8., 9. und 10. August 1910. 14 sheets on the scale of 1:10,000,000. *Veröffentlichungen des Geophysikalischen Instituts der Universität Leipzig*, herausgegeben von dessen Direktor V. Bjerknes. Heft 4. Erste Serie, *Synoptische Darstellungen atmosphärischer Zustände*, Jahrgang 1910. Leipzig, 1915.

France. France physique. 1:1,500,000. Ed. Blondel La Rougery, Paris, 1914.

France physique, politique et chemins de fer. 1:1,500,000. Ed. Blondel La Rougery, Paris, [1915].

Campagne 1914. France, centres aéronautiques. 1:1,500,000. Ed. Blondel la Rougery, Paris, [1915].

Carte du département de la Manche. 1:200,000. Ed. Blondel la Rougery, Paris, [1915].

Iceland. Generalstabens Topografiske Kort [of Iceland]. 1:50,000. Sheets: 2 S. A.; 3 N. A., S. A.; 10 S. A.; 11 N. A., S. V., S. A.; 12 N. V., N. A., S. V., S. A.; 13 N. V.; 20 S. V., S. A.; 21 N. V., N. A., S. V., S. A.; 22 N. V., N. A., S. V., S. A.; 31 S. V.; 32 N. V., N. A., S. V., S. A. Generalstabens topografiske Afdeling, Kjöbenhavn, 1915.

Italy. The fruits in Italy, by Guido Assereto. 1:3,000,000. Accompanies *Documents Cartographiques de Géographie Moderne*, No. 4, Kümmerly & Frey, Bern, 1915.

Les grandes cultures maraîchères en Italie, by Guido Assereto. 1:3,000,000. Accompanies "Documents Cartographiques de Géographie Economique," No. 4, Kümmerly & Frey, Bern, 1915.

Northwestern Europe. North west Europe. 1:250,000. Sheets 1, 2, 4 and 5. War Office, London, 1914.

Southeastern Europe. Bartholomew's war map of Italy and the Balkan states. 1:2,000,000. John Bartholomew & Co., Edinburgh, 1915.

Spain. Isla de Mallorca en seis hojas, [being sheets 213, 214, 215, 232, 233, and 234 of the] Mapa Militar de España. 1:100,000. Levantado por el Cuerpo de Estado Mayor del Ejército y publicado por el Deposito de la Guerra, [Madrid], 1914.

Turkey in Europe. The seat of war in the Dardanelles and the Bosphorus, embracing the country from Adrianople to Constantinople. 1:383,000. Edward Stanford, Ltd., London, 1915.

Nouvelle carte des opérations en Turquie d'Europe. Dardanelles-Bosphore au 1,500,000e avec carton du Bosphore au 1:250,000e. Lib. Ch. Delagrave, Paris, 1915. 1 fr.

WORLD AND LARGER PARTS

Ancient World. Orbis veteribus notus (the part of the world known to the ancients). 165 mi. to 1 in. (1:10,464,000). W. & A. K. Johnston, Ltd., Edinburgh, [1915].

Western Hemisphere. The coal supply of the western hemisphere: [two maps] North America; South America and Antarctic. By Leon Dominian. 1:25,000,000. Accompanies *Documents Cartographiques de Géographie Economique*, No. 4, Kümmerly & Frey, Bern, 1915.

EDUCATIONAL

ATLASES

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